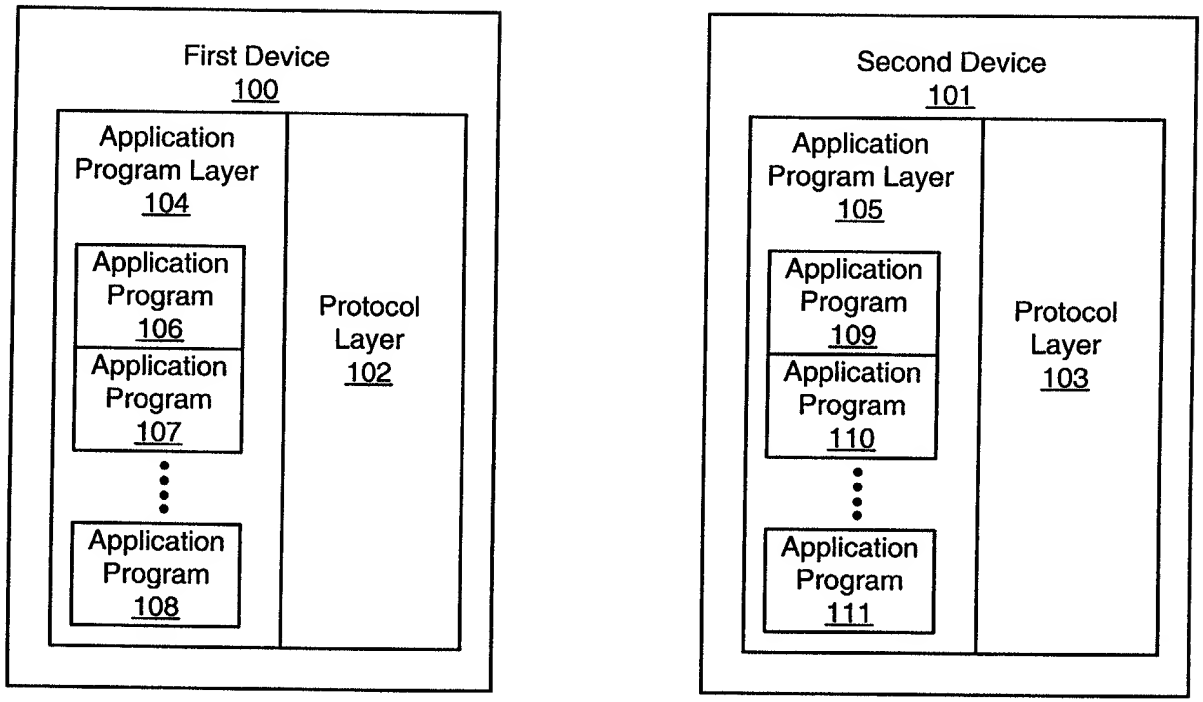
First Device
100
Application Program Layer
104
Application Program
106
Application Program
107
Application Program
108
Protocol Layer
102
Second Device
101
Application Program Layer
105
Application Program
109
Application Program
110
Application Program
111
Protocol Layer
103

FIG. 1

2001-10-EP-20660

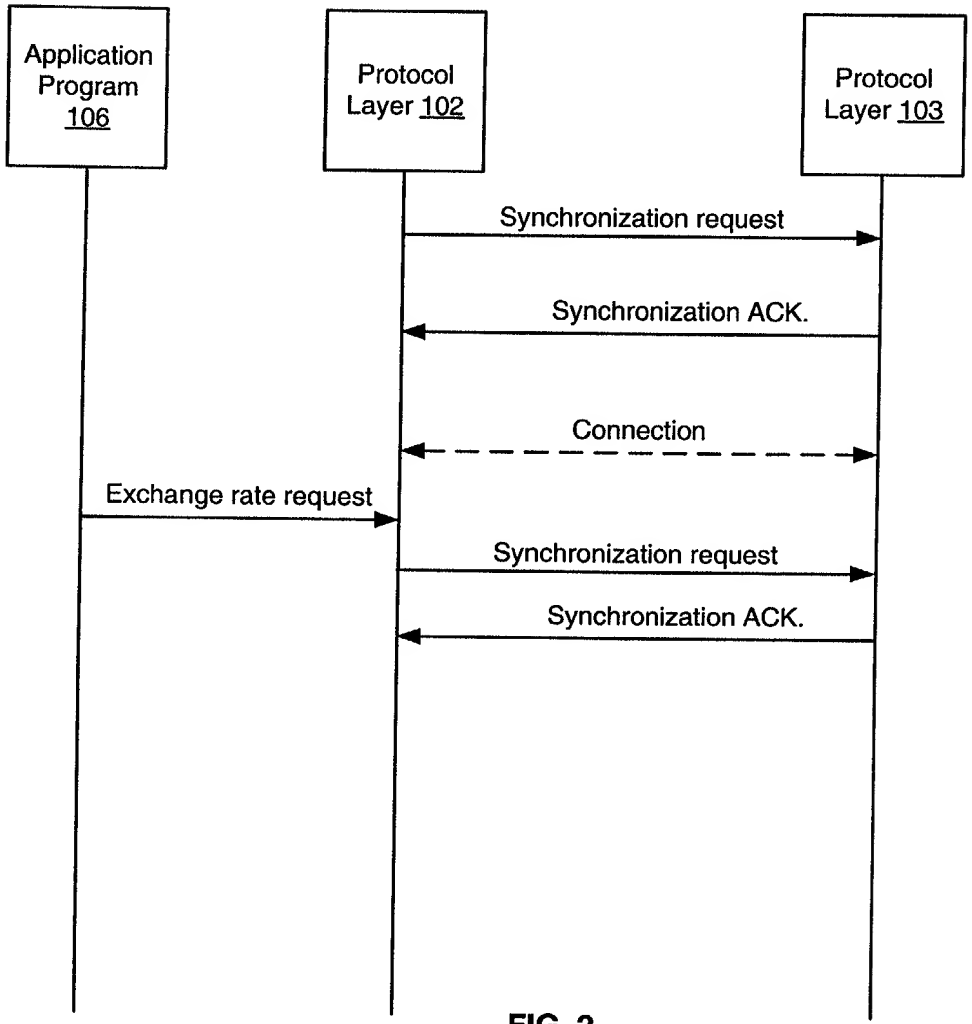

FIG. 2

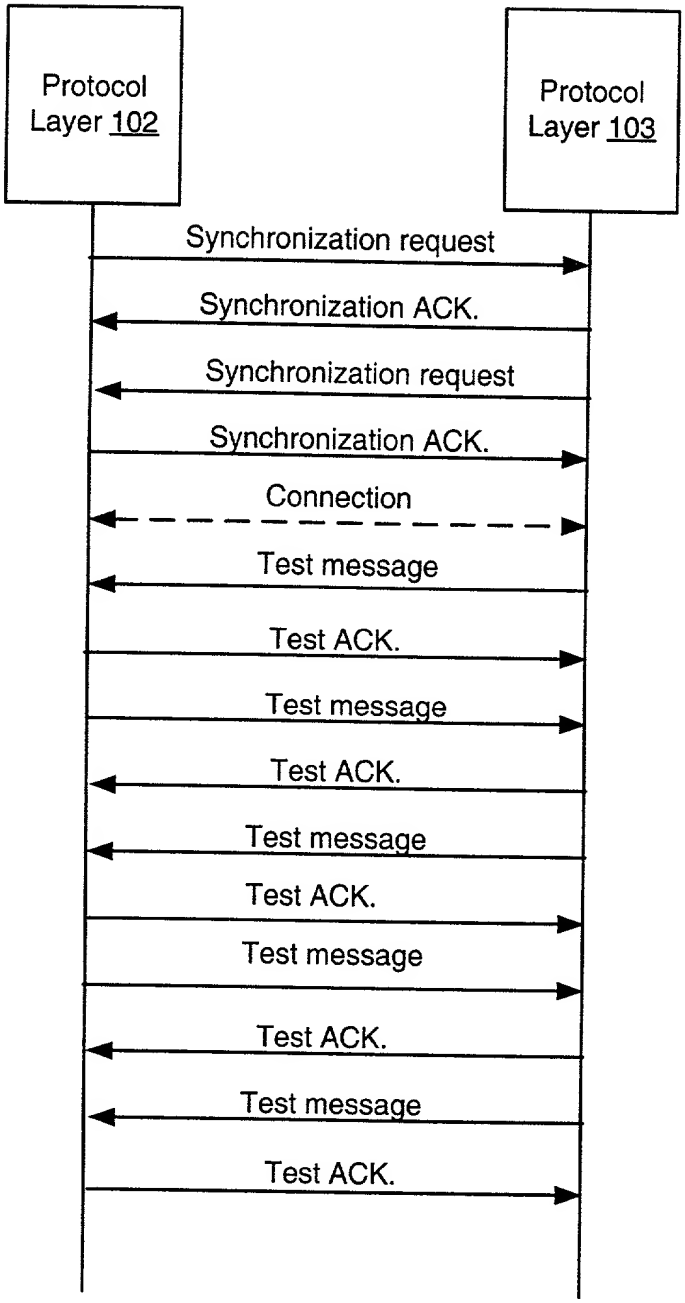
Protocol Layer 102
Protocol Layer 103
Synchronization request
Synchronization ACK.
Synchronization request
Synchronization ACK.
Connection
Test message
Test ACK.
Test message
Test ACK.
Test message
Test ACK.
Test message
Test ACK.
Test message
Test ACK.

FIG. 3

20010° 2002060

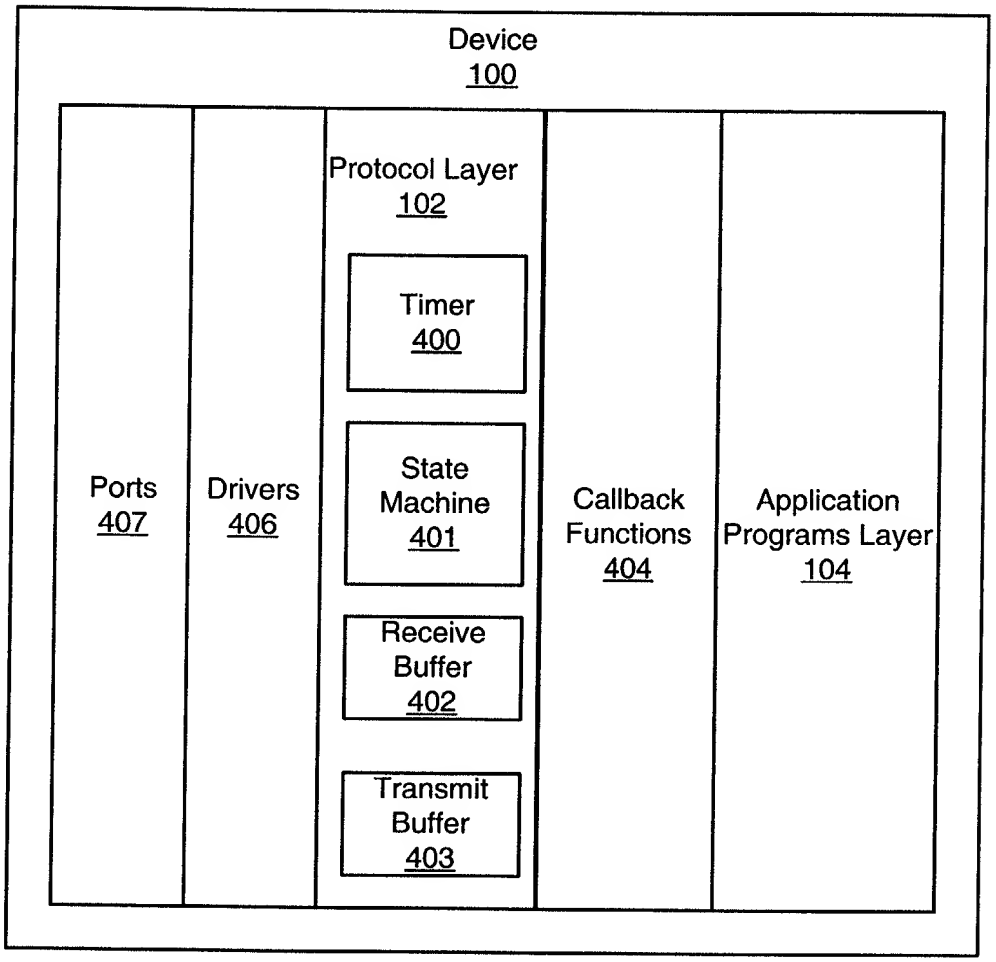

FIG. 4

Added Changed

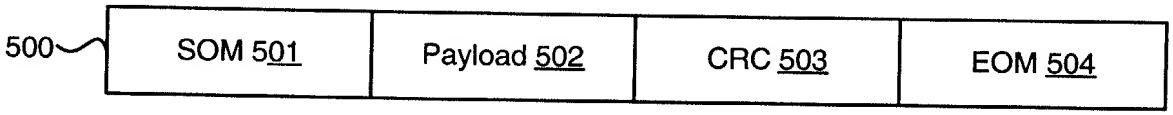

FIG. 5

20010° EP1206060

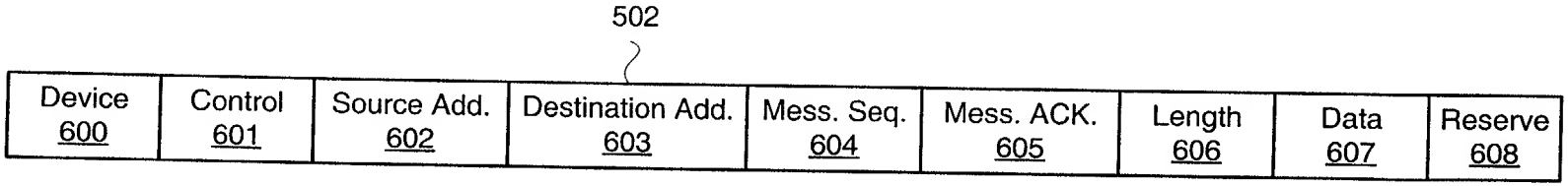

FIG. 6

20STTO" 2Eh20660

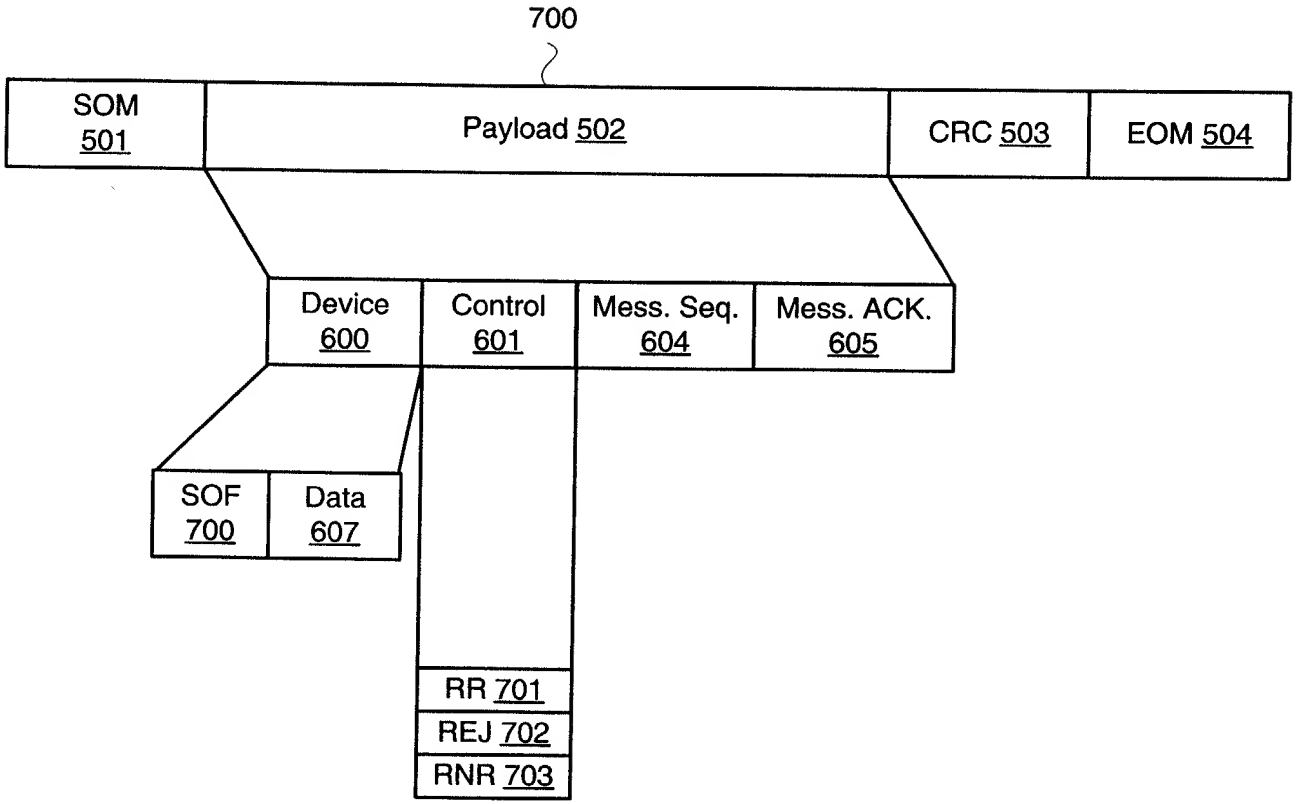

FIG. 7

20010" 22h20660

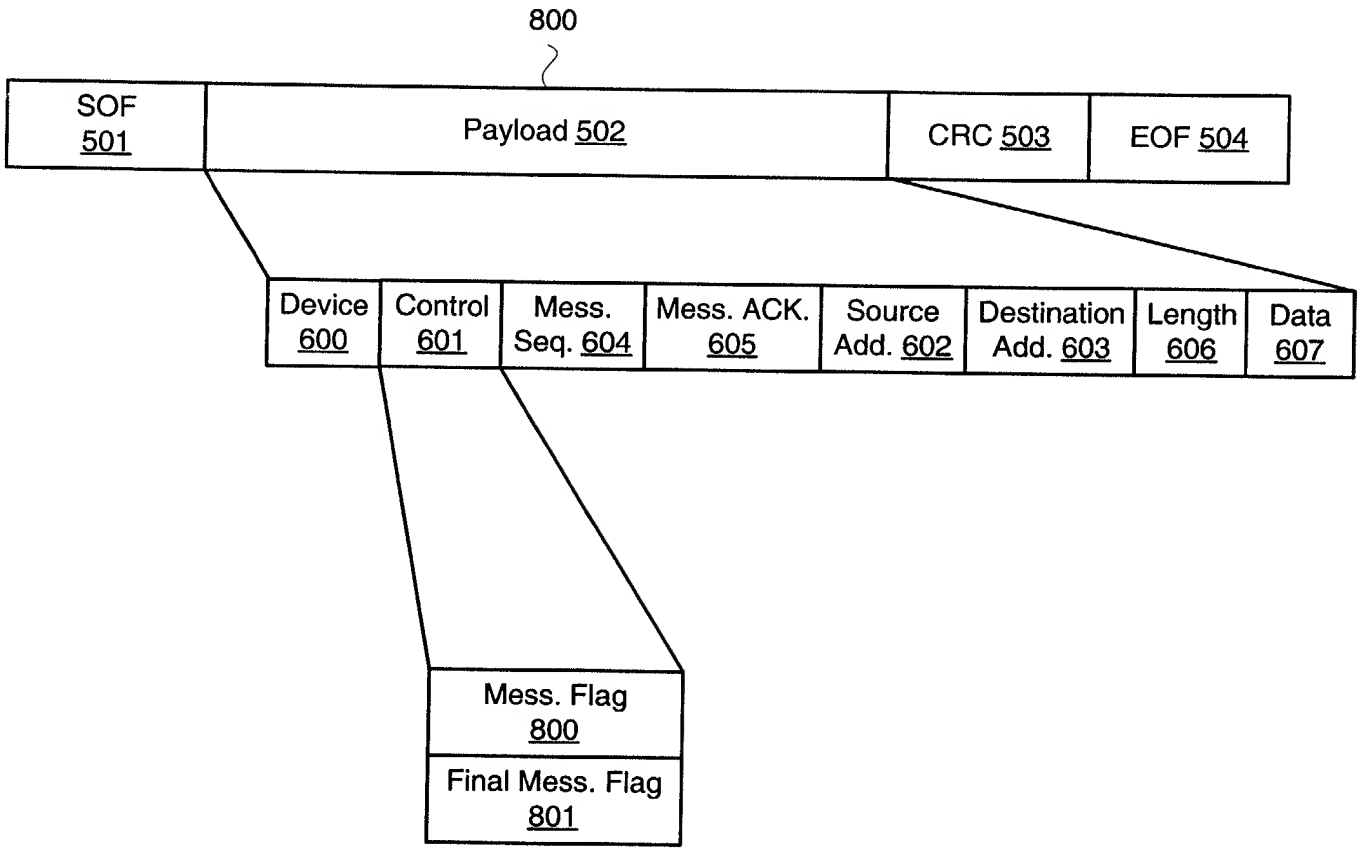

FIG. 8

Received message in Device 100	Responsive Action by Device 100
Information message where data validation fails	Delete message - increment statistic
Information message where sequence validation fails	Supervisory reject
Receive time-out condition	Ignore received characters
Validated Information message	Supervisory receiver ready or not ready
Test message	Test ACK.
Reset message	Reset link
Synchronization request message	Synchronization ACK. message
Message reject	Report to application program and continue
Abort sequence message	Abort current receive message

FIG. 9

Received message in Device 100	Responsive Action by Sending Device 101
Synchronization request message	Connection down reset state machine or renegotiate rate
Supervisory receiver ready message	Message sent successfully
Time-out (no response)	Re-send message
Supervisory reject message (Reject)	Re-send requested message
Supervisory receiver not ready message	Start timer
Message reject	Delete message, send indication to app. program

FIG. 10

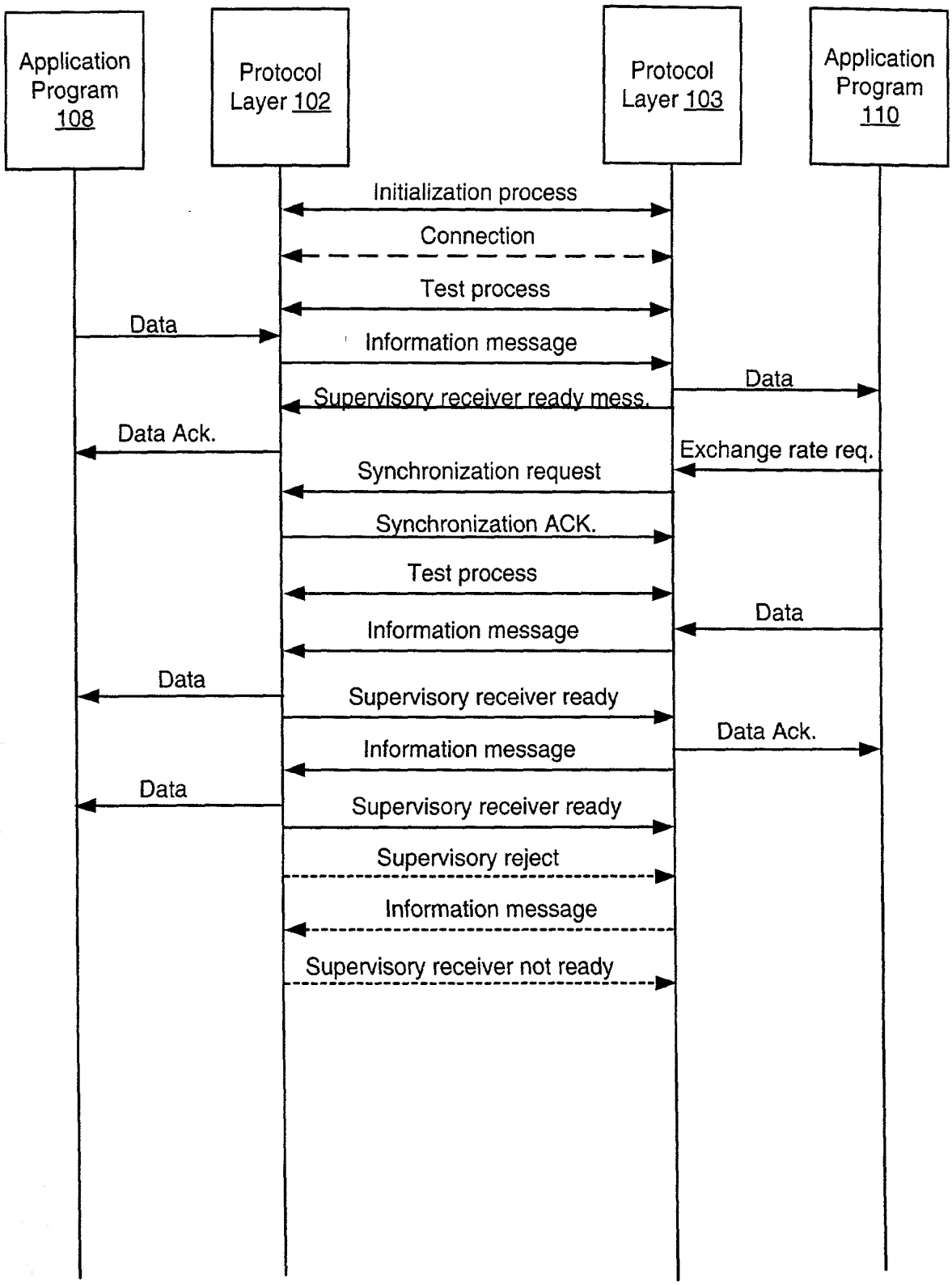
Application Program 108
Protocol Layer 102
Protocol Layer 103
Application Program 110
Initialization process
Connection
Test process
Data
Information message
Data
Supervisory receiver ready mess.
Data Ack.
Exchange rate req.
Synchronization request
Synchronization ACK.
Test process
Data
Information message
Data
Supervisory receiver ready
Data Ack.
Information message
Data
Supervisory receiver ready
Supervisory reject
Information message
Supervisory receiver not ready

FIG. 11